



CEILING SYSTEMS

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Use of Armstrong Ceiling Systems BERC-2 Clip in Seismic Design Categories D, E, F as described in the ICC Evaluation Service Report number ESR-1308, Section 4.4

The Armstrong BERC-2 Clip may be used to satisfy the following IBC and CISCA requirements for Seismic Design Categories D, E and, F:

1. The width of the perimeter supporting closure angle shall be not less than 2 inches. (IBC 2003- 1621.2.5.2.2, paragraph 2)
2. All tee ends on two adjacent walls must be fastened to the wall angle. (IBC2003- 1621.2.5.2.2, paragraph 2)
3. All tee ends on the walls opposite to the fastened ends must have a $\frac{3}{4}$ inch clearance from the wall and be free to slide on the wall angle. (IBC2003- 1621.2.5.2.2, paragraph 2)
4. All tee ends on all four walls must be fastened together to prevent spreading. (CISCA Zones 3-4, Installation, Section 4, Perimeter Members)

When properly installed, the Armstrong BERC-2 attachment clip can be used to satisfy all these requirements. Proper installation is as follows:

- A nominally 7/8" wall molding is used in lieu of the 2-inch perimeter supporting closure angle required by section 9.6.2.6.2.2 (b) of ASCE-7 for Seismic Design Categories D, E and F.
- The BERC-2 clip is attached to the wall molding by sliding the locking lances over the hem of the vertical leg of the wall molding. Clips installed on the walls where the runners are fixed are attached to the runner by a sheet metal screw through the horizontal slot in the clip into the web of the runner. Clips installed on the walls where the runners are not fixed to the clips allow the terminal runner end to move $\frac{3}{4}$ inch in both directions.
- BERC-2 clips installed in this manner are an acceptable means of preventing runners from spreading in lieu of space bars.
- Maximum ceiling weight permitted is 1.80 pounds per square foot.

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